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09/863, 065

(Updated ) 10/4/2004

Type	Hits	Search Text	DBs	Time Stamp	Com ment s	Error Defi ni ti on	Error Erro rs
1	IS&R 2	("20020021834").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/02 09:10		0	
2	BRS 1877	((represent\$5 near 2 color\$1) same (compress\$3 encod\$3)) ((represent\$5 near 2 color\$1) same (compress\$3 encod\$3)) and (color near3 reduc\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/01 14:21		0	
3	BRS 367	((represent\$5 near 2 color\$1) same (compress\$3 encod\$3)) and (color adj1 reduc\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/01 13:42		0	
4	BRS 49	((represent\$5 near 2 color\$1) same (compress\$3 encod\$3)) and (color adj1 reduc\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/01 13:53		0	
5	IS&R 2	("5164918").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/01 13:57		0	
6	BRS 12	Music-john.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/01 14:03		0	
7	BRS 13	((four adj1 squar adj1 transform) FST) and Music	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/01 14:03		0	
8	BRS 6	("5046119"   "5247589"   "5262878"   "5408542"   "5544263"   "5585944").PN.	USPAT	2004/04/01 14:08		0	
9	BRS 386	(representative adj1 color\$1) with (block\$1 region\$1 segment\$1 area\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/01 14:23		0	
10	BRS 134	((representative adj1 color\$1) with (block\$1 region\$1 segment\$1 area\$1)) and compress\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/01 14:23		0	
11	BRS 9	("3698382"   "4213462"   "4423736"   "4494550"   "4723554"   "5050613"   "5241468"   "5836872"   "5963333").PN.	USPAT	2004/04/01 14:27		0	
12	BRS 0	185024.an.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/02 09:36		0	
13	BRS 5	185024.ap.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/02 09:38		0	

Type	Hits	Search Text	DBs	Time Stamp	Com ments	Error rror Definiti on
14	BRS 4	362014.ap.	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/02 10:30		0
15	BRS 2	Kohchi-Tsukasa.in.	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/02 10:32		0
16	IS&R 2	("2002006220").PN,	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/02 10:33		0
17	BRS 77	(color adj1 component\$1) with select\$3 with (statistic\$1 average mean\$1 variance\$1 dispersion (standard adj1 deviation))	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 09:49		0
18	BRS 2914	threshold\$3 adj1 ((average mean) color intensity (gr\$1y adj1 level\$1))	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/04 13:21		0
19	BRS 3	382/172.ccls. and (threshold\$3 adj1 ((average mean) color))	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/02 12:33		0
20	BRS 73	((quantiz\$5 adj1 step\$1) with (range\$1 difference\$1)) and 382/168-172,251-253.ccls.	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/02 16:20		0
21	BRS 7	((quantiz\$5 adj1 step\$1) with (range\$1 difference\$1)) and 382/168-172,251-253.ccls. and (quantization adj1 level\$1)	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/02 14:07		0
22	BRS 12	((quantiz\$5 adj1 step\$1) with (quantiz\$5 adj1 level\$1)) with divid\$3	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/02 13:49		0
23	BRS 138	((quantiz\$5 adj1 step\$1) with (ranges\$1 difference\$1)) with (determin\$5)	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/02 14:09		0
24	BRS 168	(quantiz\$5 adj1 step\$1) with (quantiz\$5 adj1 level\$1)	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/02 14:10		0
25	BRS 78	382/162-253.ccls. and ((recursive near3 (divi\$4 sub\$1divi\$4 segment\$6 partition\$3)))	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/02 16:26		0
26	BRS 1	382/162-253.ccls. and (((recursive repeated) near3 (divi\$4 sub\$1divi\$4 sub\$1divi\$4 segment\$6 partition\$3))) with (number near3 color\$1))	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/02 16:28		0

Type	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
27	BRS 5	((recursive repeated) near3 (div\$4 sub\$1dm\$4 segment\$6 partition\$3)) with ((number near3 color\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/02 16:28		0
28	BRS 3842	382/162,164,166,172,206,243,251,270-273,286,288.cds.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 11:09		0
29	BRS 1178	345/589-593.cds.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 11:10		0
30	BRS 257	348/14,13,568.cds.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/04 13:22		0
31	BRS 2569	358/465,466,518-522.cds.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/04 13:23		0
32	BRS 0	((select\$3 chooses3 pick\$3) adj3 (color near3 component\$1)) with (compar\$4 near3 (statistic\$1 average mean\$1 variance\$1 dispersion (standard adj1 deviation) std))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 09:53		0
33	BRS 29	((select\$3 chooses3 pick\$3) adj3 (color near3 component\$1)) with (statistic\$1 average mean\$1 variance\$1 dispersion (standard adj1 deviation) std)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 10:02		0
34	BRS 20	((select\$3 chooses3 pick\$3) adj3 (color near3 component\$1)) with (statistic\$1 average mean\$1 variance\$1 dispersion (standard adj1 deviation) std) and @ad<=20000525	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 09:53		0
35	BRS 2056	((select\$3 chooses3 pick\$3 chosen) near3 (color\$1 near3 component\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 10:11		0
36	BRS 47672	(compar\$4 near4 (statistic\$1 average mean\$1 variance\$1 dispersion (standard adj1 deviation) std))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 10:10		0
37	BRS 57	((select\$3 chooses3 pick\$3 chosen) near3 (color\$1 near3 component\$1)) with (statistic\$1 average mean\$1 variance\$1 dispersion (standard adj1 deviation) std)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 10:26		0
38	BRS 1650	((select\$3 chooses3 pick\$3 chosen) near3 (color near3 component\$1)) and @ad<=20000525	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 10:12		0
39	BRS 41	((select\$3 chooses3 pick\$3 chosen) near3 (color\$1 near3 component\$1)) with (statistic\$1 average mean\$1 variance\$1 dispersion (standard adj1 deviation) std)) and @ad<=20000525	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 10:32		0

Type	Hits	Search Text	DBs	Time Stamp	Complaints	Error Definition
40	BRS 93	((select\$3 chooses\$3 pick\$3 chosen) near3 (colo\$1r near3 component\$1)) same (statistic\$1 average mean\$1 variance\$1 dispersion (standard adj1 deviation) std)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 10:56	0	
41	BRS 68	((select\$3 chooses\$3 pick\$3 chosen) near3 (colo\$1r near3 component\$1)) same (statistic\$1 average mean\$1 variance\$1 dispersion (standard adj1 deviation) std)) and @ad<=20000525	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 10:59	0	
42	BRS 2152	((select\$3 chooses\$3 pick\$3 chosen) near3 (colo\$1r) same (statistic\$1 average mean\$1 variance\$1 dispersion (standard adj1 deviation) std))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 10:56	0	
43	BRS 940	((select\$3 chooses\$3 pick\$3 chosen) near3 (colo\$1r) with (statistic\$1 average mean\$1 variance\$1 dispersion (standard adj1 deviation) std))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 10:57	0	
44	BRS 3227	((select\$3 chooses\$3 pick\$3 chosen) near3 (component) with (statistic\$1 average mean\$1 variance\$1 dispersion (standard adj1 deviation) std))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 10:58	0	
45	BRS 82	(colo\$1r with ((select\$3 chooses\$3 pick\$3 chosen) near3 (component) with (statistic\$1 average mean\$1 variance\$1 dispersion (standard adj1 deviation) std)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 11:04	0	
46	BRS 56	(colo\$1r with ((select\$3 chooses\$3 pick\$3 chosen) near3 (component) with (statistic\$1 average mean\$1 variance\$1 dispersion (standard adj1 deviation) std)) and @ad<=20000525)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 13:36	0	
47	BRS 15	(colo\$1r with ((select\$3 chooses\$3 pick\$3 chosen) near3 (component) with (histogram\$4)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 11:04	0	
48	BRS 300	(382/162,164,166,172,206,243,251,270-273,286,288.ccls.) and @pd>=20040401	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 11:10	0	
49	BRS 313	(345/589-593,348/14.13,568,358/465,466,518-522.ccls.) and @pd>=20040401	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 11:11	0	
50	BRS 302	((382/162,164,166,172,206,243,251,270-273,286,288.ccls.) and @pd>=20040401) or ((345/589-593,348/14.13,568,358/465,466,518-522.ccls.) and @pd>=20040401) and ((select\$3 chooses\$3 chosen pick\$3) with (colo\$1r component)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 11:14	0	

Type	Hits	Search Text	DBs	Time Stamp	Com ment s	Error Defi niti on
51	BRS 25	((382/162,164,166,172,206,243,251,270-273,286,288.ccls.) and (@pd>=20040401) or ((345/589-593,348/14.13,568-358/465,466,518-522.ccls.) and (@pd>=20040401)) and ((select\$3 choos\$3 chosen pick\$3) with (color\$1 component) with (statistic\$1 average mean\$1 variance\$1 dispersion (standard adj1 deviation) std)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 11:14		0
52	BRS 9	((382/162,164,166,172,206,243,251,270-273,286,288.ccls.) and (@pd>=20040401) or ((345/589-593,348/14.13,568-358/465,466,518-522.ccls.) and (@pd>=20040401)) and ((select\$3 choos\$3 chosen pick\$3) with (color\$1 component) with (statistic\$1 average mean\$1 variance\$1 dispersion (standard adj1 deviation) std))) and @ad<=20000525	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 11:14		0
53	BRS 10	(color\$1r with ((select\$3 choos\$3 chosen pick\$3) with (coordinate) with (statistic\$1 average mean\$1 variance\$1 dispersion (standard adj1 deviation) std))) and @ad<=20000525	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 13:45		0
54	BRS 3	((threshold\$3 segments\$5) with (selected adj1 (color adj1 (component coordinate, axis)))) and @ad<=20000525	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 13:46		0
55	BRS 4	((threshold\$3 segments\$5 partition\$3 div\$4) with (selected adj1 (color adj1 (component coordinate, axis)))) and @ad<=20000525	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 13:48		0
56	BRS 1175	((threshold\$3 segments\$5 partition\$3 div\$4) with (color adj1 (component coordinate, axis))) and @ad<=20000525	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 13:48		0
57	BRS 1142	((threshold\$3 partition\$3 div\$4) with (color adj1 (component coordinate axis))) and @ad<=20000525	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 13:49		0
58	BRS 108	(color\$1r with (threshold\$3 partition\$3 div\$4) with ((select\$3 choos\$3 chosen designate\$3) near3 (component coordinate axis))) and @ad<=20000525	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 14:15		0
59	BRS 1	777870.apn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 15:39		0
60	BRS 220	((select\$3 with (representative adj1 color)) and @ad<=20000525	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 15:40		0
61	BRS 57	((select\$3 with (representative adj1 color)) and (@ad<=20000525 segment)) and @ad<=20000525	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/04 15:41		0

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representative color



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- 1** Model and representation: the effect of visual feedback on human performance in a color picker interface

Sarah A. Douglas, Arthur E. Kirkpatrick

April 1999 **ACM Transactions on Graphics (TOG)**, Volume 18 Issue 2

Full text available: pdf(515.54 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

User interfaces for color selection consist of a visible screen representation, an input method, and the underlying conceptual organization of the color model. We report a two-way factorial, between-subjects variable experiment that tested the effect of high and low visual feedback interfaces on speed and accuracy of color matching for RGB and HSV color models. The only significant effect was improved accuracy due to increased visual feedback. Using color groups as a within-subjects variab ...

**Keywords:** HSV, RGB, color model, color selection, feedback, mental model, user interface

- 2** Optimal parallel coloring algorithms for a family of tree-representable graphs

R. Lin, S. Olariu

April 1999 **Proceedings of the 19th annual conference on Computer Science**Full text available: pdf(472.51 KB) Additional Information: [full citation](#), [references](#)

- 3** Linear color representations for full speed spectral rendering

Mark S. Peercy

September 1993 **Proceedings of the 20th annual conference on Computer graphics and interactive techniques**Full text available: pdf(356.68 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

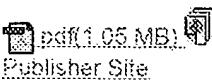
**Keywords:** full spectral rendering, linear color representations, linear models, tristimulus values

- 4** Dynamic color mapping of bivariate qualitative data

Penny Rheingans

October 1997 **Proceedings of the 8th conference on Visualization '97**

Full text available:



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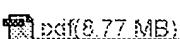


**5 An analysis of selected computer interchange color spaces**

James M. Kasson, Wil Plouffe

October 1992 **ACM Transactions on Graphics (TOG)**, Volume 11 Issue 4

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Important standards for device-independent color allow many different color encodings. This freedom obliges users of these standards to choose the color space in which to represent their data. A device-independent interchange color space must exhibit an exact mapping to a colorimetric color representation, ability to encode all visible colors, compact representation for given accuracy, and low computational cost for transforms to and from device-dependent spaces. The performance of CIE 1931 ...

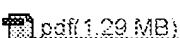
**Keywords:** CIE 1931 XYZ, CIELAB, CIELUV, SMPTE-C RGB, YCbCr, YES, color, color models, color spaces, device-independent color, quantization

**6 Color image quantization for frame buffer display**

Paul Heckbert

July 1982 **ACM SIGGRAPH Computer Graphics , Proceedings of the 9th annual conference on Computer graphics and interactive techniques**, Volume 16 Issue 3

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Algorithms for adaptive, tapered quantization of color images are described. The research is motivated by the desire to display high-quality reproductions of color images with small frame buffers. It is demonstrated that many color images which would normally require a frame buffer having 15 bits per pixel can be quantized to 8 or fewer bits per pixel with little subjective degradation. In most cases, the resulting images look significantly better than those made with uniform quantization. < ...

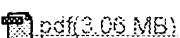
**Keywords:** Dither

**7 Interesting program representations: 3D representations for software visualization**

Andrian Marcus, Louis Feng, Jonathan I. Maletic

June 2003 **Proceedings of the 2003 ACM symposium on Software visualization**

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



The paper presents a new 3D representation for visualizing large software systems. The origins of this representation can be directly traced to the SeeSoft metaphor. This work extends these visualization mechanisms by utilizing the third dimension, texture, abstraction mechanism, and by supporting new manipulation techniques and user interfaces. By utilizing a 3D representation we can better represent higher dimensional data than previous 2D views. An overview of our prototype tool and its basic ...

**Keywords:** 3D visualization, SeeSoft, file maps, software visualization

- 8 Adaptively sampled distance fields: a general representation of shape for computer graphics

Sarah F. Frisken, Ronald N. Perry, Alyn P. Rockwood, Thouis R. Jones

July 2000 **Proceedings of the 27th annual conference on Computer graphics and interactive techniques**

Full text available:  pdf(476.42 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Adaptively Sampled Distance Fields (ADFs) are a unifying representation of shape that integrate numerous concepts in computer graphics including the representation of geometry and volume data and a broad range of processing operations such as rendering, sculpting, level-of-detail management, surface offsetting, collision detection, and color gamut correction. Its structure is uncomplicated and direct, but is especially effective for quality reconstruction of complex shapes, e.g., artistic a ...

**Keywords:** carving, distance fields, graphics, implicit surfaces, level of detail, rendering, volume modeling, volume rendering

- 9 Anti-aliasing in topological color spaces

Kenneth Turkowski

August 1986 **ACM SIGGRAPH Computer Graphics , Proceedings of the 13th annual conference on Computer graphics and interactive techniques**, Volume 20 Issue 4

Full text available:  pdf(5.19 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The power of a color space to perform well in interpolation problems such as anti-aliasing and smooth-shading is dependent on the topology of the color space as well as the number of elements it contains. We develop the *Major-minor* color space, which has a topology and representation that lends itself to simple anti-aliasing computations between elements of an arbitrary set of colors in an inexpensive frame store.

- 10 Comparative analysis of the quantization of color spaces on the basis of the CIELAB color-difference formula

B. Hill, Th. Roger, F. W. Vorhagen

April 1997 **ACM Transactions on Graphics (TOG)**, Volume 16 Issue 2

Full text available:  pdf(5.16 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article discusses the CIELAB color space within the limits of optimal colors including the complete volume of object colors. A graphical representation of this color space is composed of planes of constant lightness L\* with a net of lines parallel to the a\* and b\* axes. This uniform net is projected onto a number of other color spaces (CIE XYZ, tristimulus RGB, predistorted RGB, and YCC color space) to demonstrate and study the struct ...

**Keywords:** CIE XYZ, CIELAB, CIELAB color space, CIELUV, Cromalin, YCC, color difference perception, color quantization, color spaces, dye sublimation printer, match print, optimal colors

- 11 Representing reductions of NP-complete problems in logical frameworks: a case study

Carsten Schürmann, Jatin Shah

August 2003 **Proceedings of the 2003 workshop on Mechanized reasoning about languages with variable binding**

Full text available:  pdf(206.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

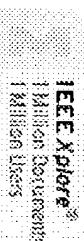
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- 1 **An efficient color representation for image retrieval**  
*Yining Deng; Manjunath, B.S.; Kenney, C.; Moore, M.S.; Shin, H.*  
 Image Processing, IEEE Transactions on , Volume: 10 , Issue: 1 , Jan. 2001  
 Pages:140 - 147

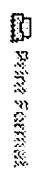
[Abstract] [PDF Full-Text (224 KB)] **IEEE JNL**

- 2 **Color image compression by moment-preserving and block truncation coding techniques**

*Chen-Kuei Yang; Ja-Chen Lin; Wen-Hsiang Tsai;*  
 Communications, IEEE Transactions on , Volume: 45 , Issue: 12 , Dec. 1997  
 Pages:1513 - 1516

[Abstract] [PDF Full-Text (140 KB)] **IEEE JNL**

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### 3 Classification of color combinations based on distance between color distributions

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